

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/597 173B  
Source: PCT - efs  
Date Processed by STIC: 9-11-06

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 09/11/2006

PATENT APPLICATION: US/10/597,173B

TIME: 12:50:13

Input Set : N:\efs\10597173B\_efs\SEQ\_LISTING\_10597173\_4.txt

Output Set: N:\CRF4\09112006\J597173B.raw

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3 <110> APPLICANT: GENEIN CO., LTD.
4     KIM, Cheol-Min
5     PARK, Hee-Kyung
7 <120> TITLE OF INVENTION: Oligonucleotide for genotyping of Mycoplasma, microarray
8     comprising the oligonucleotide, and method for detection of
9     species using the microarray
11 <130> FILE REFERENCE: P10031US
13 <140> CURRENT APPLICATION NUMBER: US 10/597,173B
14 <141> CURRENT FILING DATE: 2006-07-13
16 <150> PRIOR APPLICATION NUMBER: PCT/KR05/00147
17 <151> PRIOR FILING DATE: 2005-01-14
19 <150> PRIOR APPLICATION NUMBER: KR 2004-0002715
20 <151> PRIOR FILING DATE: 2004-01-14
22 <160> NUMBER OF SEQ ID NOS: 133
24 <170> SOFTWARE: PatentIn version 3.3
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 344
28 <212> TYPE: DNA
29 <213> ORGANISM: M.bovis
31 <400> SEQUENCE: 1
32 ttctacggag tacacttgct ttttatcact ataaaaaaaa gacttataac caaaattact      60
34 agacctatat ttatttataa acgtcatggc ttttattaat aggtcaaaag ctatatatct      120
36 agttttgaga gaacattctc tcatatgttc ttgaaaact gaatagtaaa atatttttctg      180
38 atatttacaa cgacatcaaa aatcaaatta atggttaatt tgttttgatt catcgagtaa      240
40 gtcataattta atatgattca ttgaaatgtc ttaaaataca catctaaaac taacaacaat      300
42 aggaaaatac tacttttaaa taaggaagag tttttggtgg atgc                      344
45 <210> SEQ ID NO: 2
46 <211> LENGTH: 196
47 <212> TYPE: DNA
48 <213> ORGANISM: M.cloacale
50 <400> SEQUENCE: 2
51 cttctacgga gtacaattct cactgttatg gaattaaatt tgtatccagt tttgagagaa      60
53 ctttctctca attttgttct ttgaaaactg aatatagaca ttgaaatcaa taaattaata      120
55 tttcaaagtgt ttagatcaac ctatagaata ttcaagacat atacaaaaat aggtcatact      180
57 tatatttata aatact
59                                     196
60 <210> SEQ ID NO: 3
61 <211> LENGTH: 196
62 <212> TYPE: DNA
63 <213> ORGANISM: M.falconis
65 <400> SEQUENCE: 3
66 ctttctacgg agtacaactt ctgttatgga ataattttg tatccagttt tgagagtact      60
68 aactctcttt ttgttctttg aaaactgaat atcgacattg aaaaattatt aattaatatt      120
70 tcaaagttta gatcaaccta tagaatacaa aaatatagac aacaataggt catacaacaa      180

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72 acataacaaa acaact                                     196
75 <210> SEQ ID NO: 4
76 <211> LENGTH: 239
77 <212> TYPE: DNA
78 <213> ORGANISM: M.faucium
80 <400> SEQUENCE: 4
81 gaatggtggc ttcgagacta aaagtatatg aaaaacatcg tatccagttt tgagagaact      60
83 aaacttctct cttttgttct ttgaaaactg aatatagaca ttgaaaatta aaaaattaat      120
85 atttcaaagt ttagatcaac ctatagaata caaaatcaat acaataggtc aatactatac      180
87 aattgcataa caaaaaatac tattaacaaa gataagagtt tttggtggat gcaattgta      239
90 <210> SEQ ID NO: 5
91 <211> LENGTH: 340
92 <212> TYPE: DNA
93 <213> ORGANISM: M.spermatophilum
95 <400> SEQUENCE: 5
96 gtggggatgg atcacctcct ttctacggag tacaacata cattcaaatt ttgactgaat      60
98 gttattaacc ttattttttc actaggcctt tttaatatat tttggtatgt gacttttatg      120
100 gcctaaaagt cttatatcta gttttgagag gacatcctct ctaattgttc ttgaaaact      180
102 gaatagtaaa ttttttgata tttaaacga catctaaata attgaattaa gtcaatttgt      240
104 ttagatttca tcgagatagt cattttaaaa aaatgattca ttgaaatgtc ttaaaatata      300
106 catcaaaaac aacaatctat acaataggaa tttatatact      340
109 <210> SEQ ID NO: 6
110 <211> LENGTH: 322
111 <212> TYPE: DNA
112 <213> ORGANISM: M.synoviae
114 <400> SEQUENCE: 6
115 tccttacgga gtacattaat tttaaaaaag gcatttttat taactgaaag cttttagaga      60
117 aaaattctaa aagcgggtgt gtatcgcttt ttttgccctg ggctattgta tttagttttg      120
119 agagaacaac ctctcttaaa attgttcttt gaaaactaaa tagtaataaa gatattacaa      180
121 cgacatcaaa aatataaatt aattaagggt aatttgtttt gataccgagt ttaaattatt      240
123 gaataataat ttattaaaaa gtctttgaat acatcataac aatataacaa taggacatat      300
125 tgatactaac ttttaaaaaa gt                                     322
128 <210> SEQ ID NO: 7
129 <211> LENGTH: 15
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Probe for detecting Mycoplasma
137 <400> SEQUENCE: 7
138 ttctttgaaa actga                                     15
141 <210> SEQ ID NO: 8
142 <211> LENGTH: 20
143 <212> TYPE: DNA
144 <213> ORGANISM: Artificial Sequence
146 <220> FEATURE:
147 <223> OTHER INFORMATION: Probe for detecting Mycoplasma
149 <220> FEATURE:
150 <221> NAME/KEY: misc_feature
151 <222> LOCATION: (20)..(20)

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Output Set: N:\CRF4\09112006\J597173B.raw

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152 <223> OTHER INFORMATION: n is a, c, g, or t
155 <400> SEQUENCE: 8
W--> 156 rwtctttvaa aactrratwn 20
159 <210> SEQ ID NO: 9
160 <211> LENGTH: 21
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Probe for detecting M. arginini, etc.
168 <400> SEQUENCE: 9
169 mwtygtrtcc agttttgaga g 21
172 <210> SEQ ID NO: 10
173 <211> LENGTH: 21
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Probe for detecting M. arginini, etc.
181 <400> SEQUENCE: 10
182 tttagatcaa cctatagaat a 21
185 <210> SEQ ID NO: 11
186 <211> LENGTH: 21
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Probe for detecting M. bovis, etc.
194 <400> SEQUENCE: 11
195 rtatytagtt ttgagagrrc a 21
198 <210> SEQ ID NO: 12
199 <211> LENGTH: 21
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Probe for detecting M. bovis, etc.
207 <400> SEQUENCE: 12
208 wwtrattyat traaatgtct t 21
211 <210> SEQ ID NO: 13
212 <211> LENGTH: 17
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Probe for detecting M. bovis, etc.
220 <400> SEQUENCE: 13
221 ggkyaatttg tttwgat 17
224 <210> SEQ ID NO: 14
225 <211> LENGTH: 18
226 <212> TYPE: DNA
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Probe for detecting M. bovis, etc.

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## RAW SEQUENCE LISTING

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233 <400> SEQUENCE: 14
234 ratatttaca mcgmcayc 18
237 <210> SEQ ID NO: 15
238 <211> LENGTH: 21
239 <212> TYPE: DNA
240 <213> ORGANISM: Artificial Sequence
242 <220> FEATURE:
243 <223> OTHER INFORMATION: Probe for detecting M. muris, etc.
246 <400> SEQUENCE: 15
247 cctcctttct atcgagtam a 21
250 <210> SEQ ID NO: 16
251 <211> LENGTH: 21
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: Probe for detecting M. muris, etc.
259 <400> SEQUENCE: 16
260 cggattctat ttagttttga g 21
263 <210> SEQ ID NO: 17
264 <211> LENGTH: 21
265 <212> TYPE: DNA
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: Probe for detecting M. neurolyticum, etc.
272 <400> SEQUENCE: 17
273 taaaatagat accttaakat a 21
276 <210> SEQ ID NO: 18
277 <211> LENGTH: 17
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: Probe for detecting M. neurolyticum, etc.
285 <400> SEQUENCE: 18
286 gtatyyagtt ttgaaag 17
289 <210> SEQ ID NO: 19
290 <211> LENGTH: 16
291 <212> TYPE: DNA
292 <213> ORGANISM: Artificial Sequence
294 <220> FEATURE:
295 <223> OTHER INFORMATION: Probe for detecting M. neurolyticum, etc.
298 <400> SEQUENCE: 19
299 cttgccawt agwtwt 16
302 <210> SEQ ID NO: 20
303 <211> LENGTH: 21
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: Probe for detecting M. genitalium, etc.
311 <400> SEQUENCE: 20

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## RAW SEQUENCE LISTING

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PATENT APPLICATION: US/10/597,173B

TIME: 12:50:13

Input Set : N:\efs\10597173B\_efs\SEQ\_LISTING\_10597173\_4.txt

Output Set: N:\CRF4\09112006\J597173B.raw

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312 awacracaat ctttctagtt c 21
315 <210> SEQ ID NO: 21
316 <211> LENGTH: 21
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Probe for detecting M. genitalium, etc.
324 <400> SEQUENCE: 21
325 aataagttac taagggtta t 21
328 <210> SEQ ID NO: 22
329 <211> LENGTH: 18
330 <212> TYPE: DNA
331 <213> ORGANISM: Artificial Sequence
333 <220> FEATURE:
334 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
337 <400> SEQUENCE: 22
338 tcatcatatt cagttttg 18
341 <210> SEQ ID NO: 23
342 <211> LENGTH: 21
343 <212> TYPE: DNA
344 <213> ORGANISM: Artificial Sequence
346 <220> FEATURE:
347 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
350 <400> SEQUENCE: 23
351 gggcctrtag ctcagytggt t 21
354 <210> SEQ ID NO: 24
355 <211> LENGTH: 21
356 <212> TYPE: DNA
357 <213> ORGANISM: Artificial Sequence
359 <220> FEATURE:
360 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
363 <400> SEQUENCE: 24
364 agagcrcwgc cytgataagc g 21
367 <210> SEQ ID NO: 25
368 <211> LENGTH: 21
369 <212> TYPE: DNA
370 <213> ORGANISM: Artificial Sequence
372 <220> FEATURE:
373 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
376 <400> SEQUENCE: 25
377 wgrggtcgat ggttcragtc c 21
380 <210> SEQ ID NO: 26
381 <211> LENGTH: 21
382 <212> TYPE: DNA
383 <213> ORGANISM: Artificial Sequence
385 <220> FEATURE:
386 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
389 <400> SEQUENCE: 26
390 tcatcatatt cagttttgar r 21

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 09/11/2006  
PATENT APPLICATION:    US/10/597,173B      TIME: 12:50:14

Input Set : N:\efs\10597173B\_efs\SEQ\_LISTING\_10597173\_4.txt  
Output Set: N:\CRF4\09112006\J597173B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; N Pos. 20

VERIFICATION SUMMARY

DATE: 09/11/2006

PATENT APPLICATION: US/10/597,173B

TIME: 12:50:14

Input Set : N:\efs\10597173B\_efs\SEQ\_LISTING\_10597173\_4.txt

Output Set: N:\CRF4\09112006\J597173B.raw

L:156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0